

ABSTRACT

In the method disclosed here for magnetic resonance spectroscopy, the main magnetic field in the sample measurement region is generated in the form of a pulse, and the excitation and detection of the magnetic resonance is performed close to the pulse maximum within a defined time window in which the amplitude of the main field follows a defined time function. Subject matter of the invention is moreover an apparatus for performing such a method and a sample head which is especially suitable for the described method.